Grid Occurrences – 148

*For all tripping events, concerned Constituents are requested to furnish to SRPC Secretariat, by **01.11.2026** a WORD format file of the detailed analysis of the events along with SLD or equivalent pictorial representation clearly showing (i) Location of the fault, and (ii) Bus-bar arrangement/ Configuration of feeders and other connected equipment with proper CB positions (OPEN/ CLOSE) at the time of occurrence of the fault along with records of Event loggers, Disturbance recorders. The same shall be presented by the respective Utilities in the meeting.*

*SRLDC is requested to furnish PMU plots of all tripping events to SRPC Secretariat by **01.11.2026** and present the same in the meeting.*

I. Details of Grid Disturbances

S. No.	Event	Event Analysis	Outage Date & time	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Date of receipt of Draft Report/ Updated draft report from SRLDC	Date of receipt of User Detailed report	SRLDC furnished revised Report after considering the User Report
1	Complete Outage of 220kV SAEL2 Solar plant of SAEL	220kV SAEL2 Solar plant is radially connected through 220kV-KURNOOL_PG_III-SAEL2-1. As per the reports submitted, the triggering incident was B-G fault in 220kV-KURNOOL_PG_III-SAEL2-1 and the line tripped. Tripping of the only connected line led to complete outage of 220kV SAEL2 Solar plant.	16-09-2026 08:40	230	0	GD - 1	25-09-2026	23-09-2026	Considered

2	Complete Outage of 220kV SAEL2 Solar plant of SAEL	220kV SAEL2 Solar plant is radially connected through 220kV-KURNOOL_PG_III-SAEL2-1. As per the reports submitted, the triggering incident was B-G fault in 220kV-KURNOOL_PG_III-SAEL2-1 and the line tripped. Tripping of the only connected line led to complete outage of 220kV SAEL2 Solar plant.	16-09-2026 11:55	250	0	GD - 1	25-09-2026	23-09-2026	Considered
3	Complete Outage of 230kV GRT of GRT Jewellers	Under the antecedent conditions, the 230 kV GRT Solar was radially connected to the 230 kV TTGS generating station. As per the reports submitted, the triggering incident was an R-G fault in the line, which activated the differential protection and resulted in the tripping of all three phases at the TTGS end, with no fault indication at the GRT end. This tripping led to the complete outage of the 230 kV GRT Solar plant of GRT Jewelers	22-09-2026 10:18	136	0	GD - 1	-	-	-
4	Complete outage of 220 kV Chintoor of APTRANSCO and Bus 2 of Lower Sileru of APGENCO	In the antecedent conditions, 220 kV Lower Sileru SS was operating with a double-bus and bus-coupler arrangement, with Bus 2 connected to 220 kV Chintoor SS and 400 kV Asupaka SS, and no generating station connected to Bus 2. The triggering incident was a B-G fault in the 220 kV Asupaka–Lower Sileru line. The fault was cleared by Zone 1 at the Asupaka end after B-pole tripping and unsuccessful A/R due to a persistent fault. At Lower Sileru, carrier-aided	23-09-2026 03:16	0	10	GD - 1	01-10-2026	23-09-2026 25-09-2026	Considered

		Zone 2 operated and the B-pole opened, but SOTF failed to operate, resulting in delayed fault clearance. The uncleared fault was subsequently detected at BG Kothur and Chintoor, resulting in delayed three-phase tripping at both ends. This led to the complete outage of 220 kV Chintoor SS and Bus 2 of 220 kV Lower Sileru SS							
5	Complete Outage of 400 kV AMGEPL_WIND & AMGEPL_SOLAR of AMGEPL	In the antecedent conditions, 400 kV AMGEPL_WIND & AMGEPL_SOLAR were radially connected to 400kV Greenko_CPSS. The triggering incident was the maloperation of differential protection at the Greenko_CPSS end of the 400 kV AMGEPL_WIND–Greenko_CPSS line and the line tripped at Greenko end. Subsequently, a sudden overvoltage occurred at the 400 kV AMGEPL_WIND end, which triggered Stage-2 overvoltage protection and tripped the line at the AMGEPL_WIND end. Consequently, the 400 kV AMGEPL_SOLAR–Greenko_CPSS line tripped at the AMGEPL_SOLAR end due to overvoltage stage-2 protection, while at the Greenko_CPSS end, the line tripped upon receipt of the DT signal. This resulted in the complete outage of the 400 kV AMGEPL_WIND and AMGEPL_SOLAR substations, causing a generation loss of 523 MW.	24-09-2026 10:49	523	0	GD - 1	01-10-2026	24-09-2026	Considered

6	Complete outage of 400 kV Ennore SEZ of TNPGCL	400 kV Ennore SEZ connected via 400kV SV Chatram-Ennore SEZ and 400kV NCTPS_STAGE_II-Ennore SEZ lines. In the antecedent condition, 400kV NCTPS_STAGE_II-Ennore SEZ was under outage. As per the reports submitted, the triggering incident was Y-G fault in 400kV SV Chatram Ennore SEZ lines and the line tripped. Tripping of the only connected line led to complete outage of 400kV SV Chatram Ennore SEZ line.	28-09-2026 05:56	0	0	GD - 1	07-10-2026	30-09-2026	Considered
7	Complete Outage of 220 kV Upper_Jurala PH of TGGENCO and 220kV Raichur_KA SS of KPTCL	During antecedent conditions, 220 kV Upper Jurala–Jurala Line 1 and Line 2 were under outage and hence 220kV Upper Jurala was only connected through 220kV Upper Jurala-Raichur-1&2 and further 220kV Raichur is connected to RTPS only through 220kV Raichur-RTPS-1&2. As per the reports submitted, the triggering incident was an R-G fault on the 220 kV RTPS–Raichur Line 2, which resulted in the tripping of the line. At the RTPS end, the 220 kV RTPS–Raichur Line 1 also tripped in all three phases upon sensing the same R-G fault. Tripping of both these lines led to the complete outage of the 220 kV Raichur SS and the 220 kV Upper Jurala PH.	28-09-2026 05:57	0	100	GD - 1	19-10-2026	30-09-2026 12-10-2026	Considered

8	Complete outage of 220 kV HIRIYUR_OSTRO of OSTRO_KANNADA	220kV Hiriyur_Ostro is connected radially to Hiriyur through 220KV-HIRIYUR_OSTRO-HIRIYUR-1. The triggering incident was a R-G fault in 220KV-HIRIYUR_OSTRO-HIRIYUR-1 and the line tripped. Tripping of the only connected line to 220kV Hiriyur_Ostro led to the complete outage of 220 kV Hiriyur_Ostro Generating Station of OSTRO_KANNADA.	28-09-2026 18:24	120	0	GD - 1	05-10-2026	29-09-2026	Considered
9	Complete outage of 400 kV Udangudi SS of TNPGCL	During the antecedent conditions, 400 kV Udangudi SS is connected to 400 kV Ottapidaram SS through 400KV-OTTAPIDARAM-UDANGUDI-1&2. As per the reports submitted, the triggering incident was tripping of 400 kV Udangudi-Ottapidaram line-1 on DC earth fault leakage at Ottapidaram end while hand tripping 400 kV Udangudi-Ottapidaram line-2. This led to complete outage of 400 kV Udangudi SS.	29-09-2026 12:37	0	4	GD - 1	07-10-2026	30-09-2026	Considered
10	Complete outage of 230 kV Spring_Pugalur Wind of Spring	230 kV SPRING_PUGALUR Wind is being radially fed through 230kV Pugalur-Sprng Pugalur Line-1. As per the reports submitted, the triggering incident was YB fault in 230kV Pugalur Sprng Pugalur Line-1 and the line tripped. Tripping of the only connected line led to complete outage of 230 kV Spring_Pugalur Wind.	29-09-2026 15:18	0	0	GD - 1	07-10-2026	08-10-2026	Not Considered

11	Complete outage of 400 kV Udangudi of TNPGCL	400 kV Udangudi SS was connected to 400 kV Ottapidaram SS through 400KV-OTTAPIDARAM-UDANGUDI-1&2. During antecedent conditions 400KV-OTTAPIDARAM-UDANGUDI-2 was under forced outage and hence 400 kV Udangudi GS was radially connected to 400 kV Ottapidaram SS through 400KV-OTTAPIDARAM-UDANGUDI-1. As per the reports submitted, the triggering incident was tripping of 400 kV Udangudi-Ottapidaram-1 on DC Earth fault at Udangudi end. This led to the complete outage of 400 kV Udangudi GS.	29-09-2026 21:02	0	4	GD - 1	07-10-2026	30-09-2026	Considered
12	Complete outage of 220 kV HIRIYUR_OSTRO of OSTRO_KANNADA	220kV Hiriyur_Ostro is connected radially to Hiriyur through 220KV-HIRIYUR_OSTRO-HIRIYUR-1. The triggering incident was a R-G fault in 220KV-HIRIYUR_OSTRO-HIRIYUR-1 and the line tripped. Tripping of the only connected line to 220kV Hiriyur_Ostro led to the complete outage of 220 kV Hiriyur_Ostro Generating Station of OSTRO_KANNADA	01-10-2026 08:39	0	0	GD - 1	09-10-2026	02-10-2026	Considered
13	Complete outage of 230 kV SR Pudur SS of TANTRANSCO	During antecedent conditions, the 230 kV SR Pudur SS was operating with a single main and transfer bus scheme, with all 230 kV connected to the main bus only. As per the reports submitted, the triggering incident was a Y-phase busbar fault. Due to the unavailability of busbar protection, the distance protection of the feeders	01-10-2026 17:47	138	0	GD - 1	11-10-2026	04-10-2026	Considered

		operated and cleared the fault. These trippings led to the complete outage of the 230 kV SR Pudur SS of TANTRANSCO.							
14	Complete outage of 220 kV Upper Sileru , Donkarayi PH and Tripping of 220 kV Bus-1 Lower Sileru PH of APGENCO	Under the antecedent conditions, the 220 kV Lower Sileru Power House was operating under a bus-split condition, with Bus 1 connected to 220 kV Bommur SS and the 220 kV Donkarayi Power House. The 220 kV Upper Sileru–Balimela line was under outage. Hence, 220 kV Upper Sileru, Donkarayi PH and 220 kV Bus-1 Lower Sileru PH were connected through 220 kV Upper Sileru–Pendurthi and 220 kV Lower Sileru–Bommur. As per the reports submitted, the triggering incidents were an R-G fault in the 220 kV Lower Sileru–Bommur line, followed by a high-resistance Y-G fault in the 220 kV Upper Sileru–Pendurthi line. Upon detecting these faults, both lines tripped at both ends, resulting in the complete outage of the 220 kV Donkarayi and Upper Sileru Power Houses, along with Tripping of Bus 1 of the 220 kV Lower Sileru PH.	02-10-2026 12:58	244	0	GD - 1	22-10-2026	07-10-2026 22-10-2026	Considered
15	Complete outage of 220 kV SAEL2 Solar Plant of SAEL	Under the antecedent conditions, 220 kV SAEL2 Solar was radially connected to the 765 kV Kurnool_III SS. As per the reports submitted, the triggering incident was a B-G fault in the 220 kV KURNOOL_PG_III–SAEL2-1 line, which was detected by the line differential protection.	05-10-2026 15:38	34	0	GD - 1	16-10-2026	09-10-2026	Considered

		At both ends, A/R operated following the opening of the B-phase poles. However, the line subsequently tripped in all three phases due to the persistence of the fault, resulting in the complete outage of 220 kV SAEL2 Solar.							
16	Complete outage of 400 kV GREENKO_PSS1 Solar station of GREENKO	Under the antecedent conditions, the 400 kV Greenko_PSS1–Greenko_PSS2 line was under outage. Hence, 400kV GREENKO_PSS1 was radially connected to GREENKO_CPSS through 400KV-GREENKO_CPSS-GREENKO_PSS1-1. The triggering incident was the tripping of 400 kV GREENKO_CPSS–GREENKO_PSS1-1 at the CPSS end due to suspected contactor short circuit caused by lizard entry leading to Sf6 Gas pressure Low Zone Trip in 400 kV GREENKO_CPSS–GREENKO_PSS1-1 at CPSS. Tripping of the only line connected to GREENKO_PSS1 led to the complete outage of the 400 kV Greenko_PSS1 Solar station.	07-10-2026 09:34	465	0	GD - 1	15-10-2026	08-10-2026	Considered
17	Complete outage of 220 kV Kaniyampetta SS of KSEB	As per the reports submitted, the triggering incident was a high-resistance R-G fault in the 220 kV Kaniyampetta–Kunamangalam-1 line, caused by a teak tree falling onto the line during inclement weather conditions. The 220 kV Kadakola–Kaniyampetta line and the 220 kV Kaniyampetta–Kunamangalam-1 line tripped at the Kadakola and Kunamangalam ends	08-10-2026 16:34	0	50	GD - 1	22-10-2026	15-10-2026	Considered

		respectively, due to time-delayed Zone 2 operation. These trippings resulted in the complete outage of the 220 kV Kaniyampetta SS.							
18	Complete outage of 765 kV NCPS of TANTRANSCO and 765 kV NCTPS STG3 of TNPPGCL	Under the antecedent conditions, the 765 kV Ariyalur–NCPS-2 line was under outage, and 765 kV NCPS was radially connected through the 765 kV Ariyalur–NCPS-1 line. As per the reports submitted, the triggering incident was a B-G fault in the 765 kV Ariyalur–NCPS-2 line and line tripped at both ends in all three phases due to persistent nature of the fault. Following, the tripping of the line low forward power protection triggered at NCTPS stg 3 station and resulting in the tripping of the generator circuit breaker which led to complete outage of 765 kV NCPS of TANTRANSCO and NCTPS Stage-3 of TNPGCL.	15-10-2026 23:46	322	0	GD - 1	23-10-2026	16-10-2026	Considered

II. Details of Grid Incidents

S. No.	Event	Event Analysis	Outage Date & time	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Date of receipt of Draft Report/ Updated draft report	Date of receipt of User Detailed report	SRLDC furnished revised Report after considering the User Report

							from SRLDC		
1	Tripping of 220kV Bus-1 of 220kV Nagarjunsagar_AP(Tallapalli SWS) of APTRANSCO	As per the reports submitted, the triggering incident was failure of Y-phase disc insulator near 220kV Nagarjunsagar_AP (Tallapalli SWS) Bus-1 causing Y-G fault in the Bus. Immediately, 220kV Bus-1 BBP operated and all elements connected to the bus tripped.	18-09-2026 19:17	0	0	GI-1	22-09-2026	21-09-2026	Considered
2	Tripping of 220kV Bus-1 of 220kV (Nagarjunsagar_AP)Tallapalli SWS of APTRANSCO	As per the reports submitted, the triggering incident was LBB maloperation in 400kV/220kV Nagarjuna Sagar ICT-1 whose feeder is extended to 220kV Bus-1 of 220kV (Nagarjunsagar_AP) Tallapalli SWS. Immediately, all 220kV elements connected to 220kV Tallapalli SWS tripped leading to loss of power supply to 220kV Bus-1 of 220kV Tallapalli SWS.	18-09-2026 21:54	0	0	GI-1	16-10-2026	09-10-2026	Considered
3	Tripping of 220kV Bus-2 of Srisailam RB PH of APGENCO	As per the reports submitted, the triggering incident was R-G fault in 220kV Srisailam RB Markapuram line. At the same time 220kV Srisailam RB PH Bus-2 BBP mal operated due isolator status issue of 220kV Srisailam RB PH Markapuram line and all the lines connected to 220kV Srisailam RB PH Bus-2 tripped. This led to the tripping of 220kV Bus-2 of Srisailam RB PH	20-09-2026 22:39	0	0	GI-1	25-09-2026	26-09-2026	Not Considered

4	Tripping of 765kV Bus-2 of Maheshwaram SS of PGCIL SR-1	As per the reports, the triggering incident was a B-G fault on the 765 kV Maheshwaram–Bidar Line 2, which was detected as an R-G fault by the busbar protection of Maheshwaram Bus 2, resulting in the tripping of 765 kV Bus-2 at Maheshwaram SS.	03-10-2026 02:26	0	0	GI-2	14-10-2026	07-10-2026	Considered
5	Tripping of 400kV Bus 2 at GOOTY SS of PGCIL SR-1	As per the reports submitted, the triggering incident was Y-G Bus fault caused by Y phase CB failure of the Bus reactor leading to BBP operation and which tripped all the main breakers connected to 400kV Bus 2 of 400 kV Gooty SS. This led to the tripping of 400kV Bus 2 at Gooty SS.	05-10-2026 08:32	0	0	GI-2	14-10-2026	07-10-2026	Considered
6	Tripping of 400 kV Bus 2 of NARLAPUR of TGTRANSCO	Under the antecedent conditions, 401, 402, 403 and 403M (Metering Bay) breakers were in service. As per the reports submitted, the triggering incident was opening 403 breakers without any fault which led to the tripping of 400 kV Bus 2 of NARLAPUR of TGTRANSCO	08-10-2026 10:39	0	0	GI-2	24-10-2026	17-10-2026	Considered
7	Tripping of 220 kV Bus 2 Nagjheri PH of KPCL	Under the antecedent conditions, Units 3, 4, 5, 6 and 220KV-NAGJHERI-KODASALLY-1, 220KV-NAGJHERI-KODASALLY-2 lines were under shutdown. As per reports submitted, a Y-phase CT flashover in Unit 2 triggered Busbar Protection of Bus 2 at Nagjheri PH, tripping all connected lines and Unit 1. The Unit	12-10-2026 16:38	195	0	GI-1	23-10-2026	16-10-2026	Considered

		2 circuit breaker initially failed to open, resulting in breaker failure protection operation and tripping after 200 ms. This led to the tripping of 220 kV Bus 2 Nagjheri PH of KPCL							

III. Single/Multiple Element Tripping with Protection Violation

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	400KV/220KV DICHPALLY-ICT-4	As per the reports submitted, 400KV/220KV DICHPALLY-ICT-4 got tripped due to Relay Maloperation of Sudden Pressure Relay (SPR) for fault on 220kV Dichpally -Mentrajpally feeder and charged the ICT	21-09-2026 14:57	**TGTRANSCO** : 1. Tripping of the ICT due to Relay Maloperation needs review	**TGTRANSCO** : Coordinating with OEM for replacement of the same. Coordinating with OEM for replacement of the same.
2	Tripping of Talcher-Kolar Pole-1&2	As per the reports submitted, Talcher-Kolar Pole-1 and 2 blocked due to operation of sub synchronous resonance protection due to card issue at Talcher end.	23-09-2026 12:31	**PGCIL SR-2** : 1. Blocking of the poles on sub synchronous protection needs review	
3	400KV-KALPAKKA-KHAMMAM_PG-1	As per the reports submitted, the triggering incident was the PD initiation at Kalpakka end which tripped the line in all three phases only at Kalpakka however line was holding at Khammam end.	24-09-2026 04:02	**APTRANSCO** : 1. The tripping of the line at Kalpakka end needs review.	

4	400KV/220KV VEMAGIRI_AP-ICT-1	As per the reports submitted, 400KV/220KV VEMAGIRI_AP-ICT-1 tripped after the operation of PRV due to moisture entering.	25-09-2026 15:32	**APTRANSCO** : 1. Tripping of ICT on PRV due to moisture ingress needs review	**APTRANSCO** : Cleaned Terminal box and sealed.
5	220KV/33KV KSPPL-ICT-2	As per the reports submitted, the triggering incident was Y-B-G fault due to SVG tripping after encounter of snake with isolator. After sensing the fault overcurrent protection triggered and tripped the 220 kV/33 kV KSPPL-ICT-2.	27-09-2026 09:27	**KLEIO_SOLAR** : 1. ICT tripping for a through fault in spite of 33 kV overcurrent protection needs review.	**KLEIO_SOLAR** : The snake was removed and IR test was completed and found Satisfactory values of 100 Gigaohm
6	400KV-KAIGA-GUTTUR-2	As per the reports submitted, the triggering incident was Y-G fault in the line. At Kaiga end, the fault was sensed in Z1, Y pole opened; however, A/R operated successfully. At Guttur end, the fault was sensed in Z1, Y pole opened; however, the breaker closed back after around 150ms and again Y-G fault was sensed within A/R deadtime and line tripped in all three phases.	29-09-2026 08:38	**KPTCL** : 1. The closing of breaker at Guttur end within 150ms after the Y-G fault (within A/R deadtime) needs review.	**KPTCL** : Line test charged stood ok.
7	400KV-NAGAPATTNAM_PS-TRICHY-1	As per the reports submitted, the triggering incident was B-G fault in the 400KV-NAGAPATTNAM_PS-TRICHY-1 line. At NAGAPATTNAM_PS end, the fault was sensed in Z1, AR operated and tripped due to persistent fault. At TRICHY end, the fault was sensed in Z1 and B-ph both main and tie	02-10-2026 05:49	**PGCIL SR-2** : 1. The Closing of 3ph Tie CB after 860 ms needs review	

		breakers opened, AR operated and 3ph tripped in both main and tie breakers. However, after around 850ms after the 3ph tripped, tie breaker 3ph closed back and B pole opened back within 50ms but R an Y phases were in service and suspectedly tripped due to PD operation.			
8	400KV/230KV SRIPERUMBADUR_TN -ICT-3	As per the reports submitted, 400KV/230KV SRIPERUMBADUR_TN-ICT-3 got tripped due to Buchholz relay operation after moisture ingression.	03-10-2026 08:55	**TANTRANSCO** : 1. Buchholz relay operation due to moisture ingression needs review.	**TANTRANSCO** : DGA test conducted & found normal Buch terminal box cleaned
9	220KV-NP_KUNTA-SBENERGY_NPK-1	As per the reports submitted, 220KV-NP_KUNTA-SBENERGY_NPK-1 line tripped only at SBENERGY_NPK end during inclement weather conditions due to suspected differential protection maloperation.	05-10-2026 20:40	**APSPCL** : 1. The differential protection operation for non-faulty line needs review.	
10	400KV-HULIYURUDURGA-NELAMANGALA-2	As per the reports submitted, the triggering incident was Y-G fault in the line. At both ends fault was sensed in Zone 1 and Y pole opened. At Nelamangala end, A/R operated and was successful and the line was holding. At the Huliyurudurga end, main breaker AR operated and tripped within 60ms without any fault, however the tie breakers again attempted AR and tripped within 60ms without any fault.	05-10-2026 22:16	**KPTCL** : 1. 3 phase main and tie breaker tripping at Huliyurudurga end after 60 ms of single-phase auto recloser without any fault needs review.	**KPTCL** : Line synchronized at Huliyurdurga end at 00:19 Hrs on 06/10/2026.

11	765KV-RAICHUR_PG-KOPPAL_II_PS-2	As per the reports submitted, the triggering incident was 107 % R phase overvoltage at 765 kV Koppal_II_PS-2 end. Upon sensing the OV stg-I protection triggered at Koppal end and DT was send to remote end. It was observed that R ph voltage is much higher compared to other phases (Vr-472kV, Vy-461kV Vb-459kV). As a result, line tripped in all three phases at both ends.	06-10-2026 17:02	**PGCIL SR-2** : 1. R-phase voltage is observed to be higher than other phases and needs review	
12	220KV-NP_KUNTA-NP_KUNTA PSS1-1	As per the reports submitted, the triggering incident is the tripping of 220KV-NP_KUNTA-NP_KUNTA PSS1-1 only at NP_KUNTA PSS1 due to operation of Z1 (as per FIR). At NPKUNTA end the line was holding. No Fault is observed during the event.	08-10-2026 13:28	**APSPCL** : 1. Tripping of the 220KV-NP_KUNTA-NP_KUNTA PSS1-1 at NP_KUNTA PSS1 end on Z1 without any fault needs review	
13	400KV/230KV SUNGAVARACHATRAM-ICT-1	As per the reports submitted, 400KV/230KV SUNGAVARACHATRAM-ICT-1 got tripped on differential protection operation for the through Y-G fault in 230kV side due to LVCT DC offset.	09-10-2026 22:32	**TANTRANSCO** : 1. Differential protection operation for a through fault needs review.	**TANTRANSCO** : LVCT has to be replaced
14	Tripping of 400 kV-Anaikadavu-Thappukundu-2 & 400 kV-Rasipalyam-Anaikadavu-1	As per the reports submitted, the triggering incident was 111% overvoltage in the Y and B phases at the Anaikadavu end. Upon sensing the overvoltage, Stage-I OV protection operated at the Anaikadavu end of the 400 kV	10-10-2026 15:01	**TANTRANSCO** : 1. Tripping of 400 kV-Rasipalyam-Anaikadavu-1 line for overvoltage at Anaikadavu	

		Anaikadavu–Rasipalyam-1 line, and a DT signal was sent to the remote end. Following the tripping of the 400 kV Rasipalyam–Anaikadavu-1 line at both ends, 110% overvoltage was observed at the Anaikadavu and Thappukundu ends. Upon sensing the overvoltage, Stage-I OV protection operated at the Thappukundu end of the 400 kV Anaikadavu–Thappukundu line, 6 seconds after the tripping of the 400 kV Rasipalyam–Anaikadavu-1 line, and a DT signal was sent to the remote end.		end which was a violation of OVR gradings needs review.	
15	400KV-NCTPS_STAGE_II-MANALI-1	As per the reports submitted, the triggering incident was a B-G fault in the line caused by the decapping of the B-phase suspension insulator at location 118. At the NCTPS end, the fault was sensed by Zone 1 protection at a distance of 49 km, and the B-phase pole opened. Tie breaker AR did not operate and 3ph tripped, but Main breaker AR operated and was successful, but 3ph tripped due to fault in reclaim time during which only Y pole closed back for around 80ms and tripped. At Manali end, the fault was sensed by Zone 1 protection at a distance of 9 km, and the B-phase main and tie breakers pole opened. AR operated in main CB and was successful but tripped to fault in reclaim time, but tie CB 3ph	14-10-2026 02:25	**<u>TANTRANSCO</u>** : 1. Non tripping of Tie breakers during 3ph tripping of main breakers at Manali end needs review **<u>TNPGCL</u>** : 1. Closing back of Y-ph after 3ph trip of main breaker at NCTPS needs review 2. Non operation of tie breaker AR at NCTPS needs review 3. Non receipt of DT from remote end needs review	**<u>TANTRANSCO</u>** : External AR relay PSL logic for input has been modified Loc No.180, B phase suspension insulator replaced

		trip did not occur and later tripped due to pole discrepancy.			
16	765KV-RAICHUR_PG-KOPPAL_II_PS-2	As per the reports submitted, the triggering incident was 107 % R phase overvoltage at 765 kV Koppal_II_PS-2 end. Upon sensing the OV stg-I protection triggered at Koppal end and DT was send to remote end. It was observed that R ph voltage is much higher compared to other phases (Vr-472kV, Vy-461kV Vb-459kV). As a result, line tripped in all three phases at both ends.	14-10-2026 17:02	**PGCIL SR-2** : 1. R-phase voltage is observed to be higher than other phases and needs review	
17	Tripping of 765 kV-Chilakaluripeta-Cuddapah-2 & 765 kV-Cuddapah-Thiruvalam-2	As per the reports submitted, the triggering incident was overvoltage of 107% at the Cuddapah and Chilakaluripeta ends. Upon sensing the overvoltage, Stage-I overvoltage (OV) protection operated at the Chilakaluripeta end of the 765 kV Chilakaluripeta–Cuddapah-2 line, and a DT signal was sent to the remote end. Following the tripping of the 765 kV Chilakaluripeta–Cuddapah-2 line, 765kV Cuddapah-Thiruvalam-2 tripped after around five seconds later on Stage-I OV protection and is not in accordance with OVR grading where in it is expected that 765 kV Cuddapah-Kurnool-2 is to be tripped before 765kV Cuddapah-Thiruvalam-2	14-10-2026 17:03	**PGCIL SR-1** : 1. Tripping of 765 kV Cuddapah-Thiruvalam-2 line for overvoltage at Cuddapah end before 765 kV Cuddapah-Kurnool-2 is not in line with OVR grading	

18	Multiple Trippings at Greenko PSP	As per the reports submitted, the auxiliary supply arrangement was as follows: At each unit level at UAB, UAT-x (even-numbered UAT) was in service, with the 433 V bus coupler closed, while UAT-y (odd-numbered UAT) was kept idle charged. Consequently, all unit auxiliaries were being fed through UAT-x. All UAT-x were connected to 11 kV Bus-2, while UAT-y were connected to 11 kV Bus-1, with the 11 kV bus coupler in the open condition. ST-1 connected the 400 kV system to 11 kV Bus-1, while ST-2 connected the 400 kV system to 11 kV Bus-2. Thus, the auxiliary supply of all units was effectively dependent on ST-2 and 11 kV Bus-2, with no alternate supply path in service. The triggering incident is the breaker opening at LV side without any relay indication of 400/11kV ST-2 (exact reason is still under investigation). With the tripping of ST-2 led to the failure of auxiliary supply of all units and led to tripping of all units for loss of cooling system and led to a load loss (pumping mode) of 1806 MW.	15-10-2026 10:15	**GREENKO** : 1. Tripping of the ST-2 without any relay indication needs review 2. Non availability of redundant auxiliary supply for all the units needs review	
19	220KV-KUDGI_NTPC-BILAGI-2	As per the reports submitted, the triggering incident is the relay maloperation at Bilagi end and DT was sent to Kudgi end (as per FIR).	19-10-2026 11:03	**KPTCL** : 1. Tripping of the line at Bilagi end needs review	

20	400KV/110KV KAYATHAR-ICT-1	As per the reports submitted, 400KV/110KV KAYATHAR-ICT-1 tripped due to moisture ingress in OLTC Y phase PRV terminal box during rainy weather.	20-10-2026 18:56	**TANTRANSCO** : 1. Tripping of ICT due moisture ingression in OLTC needs review.	**TANTRANSCO** : Moisture cleaned & Proofing Silicone applied

IV. Non-operation of Auto recloses during transient fault

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	220KV-YERRAANDAHALLI-HOSUR-1	As per the reports submitted, the triggering incident was Y-G fault in the line due to burnt tree branches near Tower No. 30. At YERRAANDAHALLI end, the fault was sensed in Z1 and the line tripped in all three phases without any A/R operation.	21-09-2026 02:37	**KPTCL** : 1. Non operation of A/R at Yerrandahalli end needs review.	**KPTCL** : Hence, LC-362 was availed to carry out the necessary trimming and removal of the suspected burnt tree branches near Tower No. 30. After completion of the tree-trimming work, LC-362 was returned and the transmission line was energized at 16:17 hrs. The line was observed to be healthy and remained in normal condition thereafter.
2	220KV-KOTHAGUDEM_TPS-TIRUVURU-1	As per the reports submitted, the triggering incident was Y-G fault in the line. At Kothagudem end, the fault was sensed in Z1 and the line tripped in all three phases without AR operation. At Tiruvuru end, the fault was sensed in Z1 and Y pole opened; A/R operated and was successful and line was holding.	21-09-2026 20:01	**TGGENCO** : 1. Non operation of A/R at Kothagudem end needs review.	

3	400KV-TELANGANA_STPP-RAMADUGU-2	As per the reports submitted, the triggering incident was Y-G fault in the line. At Telangana_STPP end, the fault was sensed in carrier aided Z2 and Y pole got opened. At Ramagudu end, the fault was sensed in Z1 and 3ph tripping was observed without any A/R operation; however, at Telangana end A/R successfully operated	22-09-2026 14:10	**TGTRANSCO** : 1. Non operation of AR at Ramadugu end needs review	**TGTRANSCO** : Non-operation of A/R will be checked by availing LC.
4	400KV-GUTTUR-BTPS-1	As per the reports submitted, the triggering incident was R-G fault in the line. At Guttur end, the fault was sensed in Z1 and R pole opened; however, A/R did not operate due to fuse blown of DC sources. At BTPS end, the fault was sensed in carrier aided Zone 2 and R pole got opened; however, after A/R operation line tripped in three phases due to persistent fault.	27-09-2026 04:25	**KPTCL** : 1. Non operation of AR at Guttur end needs review	**KPTCL** : AR operation is under investigation **KPCL** : Line charged at 20:05Hrs on 27.09.2026 after availing clearance from TLM KPTCL and LDC
5	400KV-KAIGA-GUTTUR-2	As per the reports submitted, the triggering incident was B-G fault in the line. At Kaiga end, the fault was sensed in Z1 at a distance of 78km and B pole opened; however, A/R operated successfully. At Guttur end, the fault was sensed in Z1 at a distance of 152km and the line tripped in all 3 phases with the operation Pole discrepancy as A/R failed to operate.	10-10-2026 14:03	**KPTCL** : 1. Non operation of A/R needs review.	**KPTCL** : AR L/O initiation is planned to investigate in the next shut down
6	400KV-DICHPALLY-RAMAGUNDAM-1	As per the reports submitted, the triggering incident was B-G fault in the line. At Dichpally end, the fault was sensed in carrier aided Z2 and A/R did not operate; however,	11-10-2026 13:19	**NTPC_RSTPS** : 1. Non operation of A/R needs review.	**TGTRANSCO** : Line patrolling and tarus done but no fault found

		the line tripped on Pole discrepancy. At Ramagundam end, the fault was sensed in Z1 and A/R did not operate; however, the line tripped on Pole discrepancy.		**TGTRANSCO** : 1. Non operation of A/R needs review.	
7	400KV-KAIGA-GUTTUR-2	As per the reports submitted, the triggering incident was B-G fault in the line. At Kaiga end, the fault was sensed in Z1 at a distance of 71km and B pole got opened; however, line tripped in all three phases after A/R operation due persistence of the fault. At Guttur end, the fault was sensed in Z1 at a distance of 104km and the line tripped in all three phases after operation of pole discrepancy as A/R didn't operate.	12-10-2026 09:36	**KPTCL** : 1. Non operation of A/R needs review.	**KPTCL** : On inspection it was found that Auxiliary relay contacts in closing circuit were burnt out. Replacement of relay is under progress.
8	220KV-ASUPAKA-LOWER_SILERU-1	As per the reports submitted, the triggering incident was R-G fault in the 220 kV-Asupaka-Lower_Sileru-1 line. At Asupaka end, the fault was sensed in Zone 1 and line tripped in all three phases. At Lower Sileru end, the fault was sensed in carrier aided Zone 2 and R pole opened; however, A/R successfully operated.	14-10-2026 11:44	**TGTRANSCO** : 1. Non operation of AR at Asupaka needs review	
9	400KV-SALEM-NNTPP-1	As per the reports submitted, the triggering incident was B-G fault in the line. At Salem end, the fault was sensed in Zone 1 and B-pole main and tie breakers opened, however other 2 phases of main breaker opened within 100ms leading to main breaker 3ph without AR operation, but tie breaker AR operated and tripped due to persistent fault. AT NNTPP end	14-10-2026 17:11	**PGCIL SR-2** : 1. Non operation of main CB AR for the 400KV-SALEM-NNTPP-1 line at SALEM end needs review	

		the fault was sensed in Z1 and AR did not operate as remote end AR was not successful as per the adaptive AR logic.			
10	220KV-ASUPAKA-LOWER_SILERU-1	As per the reports submitted, the triggering incident was Y-G fault in the line. At Asupaka end the fault sensed in Zone 1 and line tripped in all three phases. At Lower Sileru end the fault was sensed in Zone 1 and Y pole opened; however, A/R successfully operated.	14-10-2026 17:51	**TGTRANSCO** : 1. Non operation of AR at Asupaka end needs review	
11	400KV-ARIYALUR-KALVENDAPATTU-1	As per the reports submitted, the triggering incident was R-G fault in the line. At Ariyalur end, the fault was sensed in Z1, R pole opened but within A/R dead time due to unhealthy carrier unhealthy the line tripped in all 3 phases. At Kalvendapattu end, the fault was sensed in Z1, R pole opened and A/R operated successfully.	17-10-2026 21:48	**TANTRANSCO** : 1. Non operation of A/R due at Ariyalur end needs review	**TANTRANSCO** : Separate Earthing has to be provided for 48VDC source . Addressed to System operation wing

V. PLCC Maloperation-related Events

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	400KV-LKPPL_STG2-VIJAYAWADA-2	As per the reports submitted, the triggering incident was an auxiliary direct trip command receipt from Rx1 relay at Lanco end which tripped the line at Lanco end only.	24-09-2026 23:48	**PGCIL SR-1** : 1. Sending of DT to remote end needs review	
2	400KV-LKPPL_STG2-VIJAYAWADA-2	As per the reports submitted, the triggering incident was an auxiliary direct trip receipt	25-09-2026 04:15		

		from Rx1 relay which tripped the line only at Lanco end due to PLCC Maloperation at Vijayawada end, Line was holding at Vijayawada end.		**PGCIL SR-1** : 1. Sending of DT to remote end needs review	
3	400KV-LKPPL_STG2-VIJAYAWADA-2	As per the reports submitted, the triggering incident was an auxiliary direct trip receipt from Rx1 relay which tripped the line only at Lanco end due to PLCC Maloperation at Vijayawada end, Line was holding at Vijayawada end.	25-09-2026 06:13	**PGCIL SR-1** : 1. Sending of DT to remote end needs review	
4	400KV-GHANAPUR-GAJWEL-1	As per the reports submitted, 400KV-GHANAPUR-GAJWEL-1 line got tripped due to DT receipt at Gajwel end due to PLCC issue. Line was holding at Ghanapur end.	01-10-2026 12:04	**PGCIL SR-1** : 1. Sending of DT to remote end needs review	
5	400KV-VTPS_IV-VIJAYAWADA-1	As per the reports submitted, 400KV-VTPS_IV-VIJAYAWADA-1 line tripped on DT receipt at VTPS end due to PLCC maloperation. Line was holding at Nunna end.	09-10-2026 10:27	**PGCIL SR-1** : 1. The sending of DT needs review.	
6	400KV-VTPS_IV-VIJAYAWADA-1	As per the reports submitted, the triggering incident is the PLCC maloperation at Vijayawada end and DT sent to remote end and at VTPS end was received in channel-2 from Nunna end and PLCC Counter increment was observed and the line tripped only at VTPS end. Line was holding at Nunna end.	12-10-2026 12:10	**PGCIL SR-1** : 1. Sending of DT from Vijayawada end needs review	**APGENCO** : There is no action to take at VTPS end. Informed to APTRANSCO and Powergrid

VI. DR Time Synchronization Issues Related Events

Sl. No	Element	Date & Time	Station at which DR time synchronisation was not observed
1	220KV-YERRAANDAHALLI-HOSUR-1	21-09-2026 02:37	YERRAANDAHALLI - 220KV
2	400KV/33KV GREENKO_PSS1-ICT-1	21-09-2026 16:52	GREENKO_PSS1 - 400KV
3	400KV-KALABURAGI-YTPS-1	22-09-2026 17:22	YTPS - 400KV
4	220KV-Chintur-BG Kothur-1	23-09-2026 03:16	BG Kothur - 220KV
5	220KV-AMBEWADI-XELDEM-1	26-09-2026 13:02	AMBEWADI - 220KV
6	400KV-GUTTUR-BTPS-1	27-09-2026 04:25	GUTTUR - 400KV
7	400KV-PAVAGADA_PG-MYSORE-1	27-09-2026 07:02	PAVAGADA_PG - 400KV
8	220KV/33KV KSPPL-ICT-2	27-09-2026 09:27	KSPPL - 220KV
9	400KV-ENNORE SEZ-SUNGAVARACHATRAM-1	28-09-2026 05:56	SUNGAVARACHATRAM - 400KV
10	RAICHUR_KA - 220KV	28-09-2026 05:57	RAICHUR_KA - 220KV
11	220KV-RTPS-RAICHUR_KA-2	28-09-2026 05:57	RAICHUR_KA - 220KV
12	400KV-KAIGA-GUTTUR-2	29-09-2026 08:38	GUTTUR - 400KV
13	220KV-AMBEWADI-PONDA-2	01-10-2026 12:33	AMBEWADI - 220KV
14	220KV-AMBEWADI-XELDEM-1	01-10-2026 14:33	AMBEWADI - 220KV
15	UPPER_SILERU - 220KV	02-10-2026 12:58	UPPER_SILERU - 220KV
16	220KV-PENDURTHI-UPPER_SILERU-1	02-10-2026 12:58	PENDURTHI - 220KV
17	220KV-PENDURTHI-UPPER_SILERU-1	02-10-2026 12:58	UPPER_SILERU - 220KV
18	220KV-BOMMUR-LOWER_SILERU-1	02-10-2026 12:51	BOMMUR - 220KV
19	765KV-NIZAMABAD-WARDHA-2	03-10-2026 11:10	NIZAMABAD - 765KV
20	GOOTY - 400KV	05-10-2026 08:32	GOOTY - 400KV

21	400KV-HULIYURUDURGA-NELAMANGALA-2	05-10-2026 10:16	NELAMANGALA - 400KV
22	220KV-KADAKOLA-KANIYAMPETTA	08-10-2026 16:34	KADAKOLA - 220KV
23	400KV-KAIGA-GUTTUR-1	09-10-2026 14:22	GUTTUR - 400KV
24	400KV-HINDUJA-KALPAKKA-1	10-10-2026 10:28	KALPAKKA - 400KV
25	400KV-HINDUJA-KALPAKKA-1	10-10-2026 10:28	HINDUJA - 400KV
26	400KV-KAIGA-GUTTUR-2	10-10-2026 14:03	GUTTUR - 400KV
27	400KV-KAIGA-GUTTUR-2	12-10-2026 09:36	GUTTUR - 400KV
28	400KV-SRISAILAM_LEFT_BANK-DINDI-1	12-10-2026 14:14	DINDI - 400KV
29	220KV-AMBEWADI-XELDEM-1	13-10-2026 11:29	AMBEWADI - 220KV
30	400KV-NCTPS_STAGE_II-MANALI-1	14-10-2026 02:25	MANALI - 400KV
31	400KV-MANALI-PULIYANTHOPE-2	14-10-2026 16:57	MANALI - 400KV
32	400KV-MANALI-PULIYANTHOPE-1	14-10-2026 17:03	MANALI - 400KV
33	400KV-MANALI-PULIYANTHOPE-2	16-10-2026 18:34	MANALI - 400KV
34	400KV-PUGALUR HVDC-THIRUVALAM-1	17-10-2026 06:38	THIRUVALAM - 400KV

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